

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

**Date of Report: January 10, 1997**

**Date Received: January 2, 1997**

**Project: Metro Self Monitor, PO #M55653**

**Date Samples Extracted: January 6, 1997**

**Date Extracts Analyzed: January 7, 1997**

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A  
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M55653	0.46	0.74	0.46	0.50
Method Blank	<0.05	<0.05	<0.05	<0.05

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**ENVIRONMENTAL CHEMISTS**

Date of Report: January 10, 1997

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Project: Metro Self Monitor, PO #M55653

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 74702 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.46	0.46	0	0-20
Copper	mg/L (ppm)	0.74	0.78	5	0-20
Nickel	mg/L (ppm)	0.46	0.46	0	0-20
Zinc	mg/L (ppm)	0.50	0.54	8	0-20

Laboratory Code: 74702 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.46	89	90	80-120	1
Copper	mg/L (ppm)	5	0.74	89	89	80-120	0
Nickel	mg/L (ppm)	10	0.46	91	94	80-120	3
Zinc	mg/L (ppm)	5	0.50	93	97	80-120	4

Laboratory Code: Spike Blank

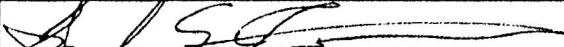
<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	101	94	80-120	7
Copper	mg/L (ppm)	5	101	95	80-120	6
Nickel	mg/L (ppm)	10	101	95	80-120	6
Zinc	mg/L (ppm)	5	101	95	80-120	6

KNJ



1.2.~~6~~/7

1 Pm

Send Report To: Alaskan Copper Works Contact GERALD THOMAS  
Company 628 HANSEN ST  
Address Seattle WA 98134  
City, State, Zip Phone # (206) 382-8339 FAX # (206) 382-4309  
Date 1-2-96

SITE NO.		PROJECT NAME		PURCHASE ORDER #	
7238		METRO Self monitor		m 55653	
SAMPLERS (signature)				PROJECT LOCATION	
				3200 6 <sup>th</sup> Ave	
REMARKS				SAMPLE DISPOSAL INFORMATION	
				<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	
Relinquished by: 	GERALD Thompson	ACW	12/97	12
Received by: 	KURT Johnson	FB&I	12/2/77	12
Relinquished by:				
Received by:				

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Beth M. Albertson, M.S.  
Bradley T. Benson  
Kelley D. Wilt

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044

**January 10, 1997**

**INVOICE # 97ACU0110-1  
DUPLICATE COPY**

**Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134**

**RE: Project Metro Self Monitor, PO #M55653: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on January 2,  
1997.**

**1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample**

**\$ 65.00**

**Amount Due .....**

**\$ 65.00**



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3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044

January 10, 1997

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 2, 1997 from your Metro Self Monitor, PO #M55653 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson  
Chemist

keh  
Enclosures  
ACU0110R.DOC